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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/820,110	03/28/2001	Ramanathan Ramanathan	42390P10983	2329
8791	7590 07/28/2004		EXAMINER	
BLAKELY SOKOLOFF TAYLOR & ZAFMAN			LAFORGIA, CHRISTIAN A	
	12400 WILSHIRE BOULEVARD SEVENTH FLOOR			PAPER NUMBER
LOS ANGE	LES, CA 90025-1030		2131	
			DATE MAILED: 07/28/2004	6

Please find below and/or attached an Office communication concerning this application or proceeding.

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Application No. Application Art Unit Christian La Forgia 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131 2131	1				
## Examiner			Application No.	Applicant(s)	\mathcal{C}_{ℓ}
Christian La Forgia 2131 The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisione of 37 CPR 1136(s), in no event, however, may a reply be timely filed Extensions of the reply a specified above is less than thirty (30) days, a reply within the satistacy minimum of timely, (50) days will be considered timely. If the period for reply specified above is less than thirty (30) days, a reply within the satistacy minimum of the period for reply specified above is less than thirty (30) days, a reply within the satistacy minimum of the period for reply within the satistacy priod will apply and will explication to recome ARM-DONED (30 U.S. C. § 133). If NO period for reply appendix dates, the maximum stations priod will apply and will explication to recome ARM-DONED (30 U.S. C. § 133). Status 1) Responsive to communication(s) filed on 10 May 2004. 2a) This action is FINAL. 2b) This action is non-dirion for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) is a sylare allowed. Claim(s) 1-27 is/are rejected. Disposition Papers 9) The specification is objected to by the Examiner. 10 The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12 Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 3) All b) Some * c) None of . 1. Certified copies of the priority documents have been received in Application No. 2. Certified or poins of the priority document	•		09/820,110	RAMANATHAN, RAMANATHAN	$ ack{\gamma}$
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DETAILED ACTION

1. The amendment filed on 10 May 2004 is noted and made of record.

2. Claims 1-27 are presented for examination.

Terminal Disclaimer

3. The terminal disclaimer filed on 10 May 2004 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of U.S. Patent Application Serial #09/945,913 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Response to Arguments

- 4. Applicant's arguments with respect to claims 1-21 have been considered but are moot in view of the new ground(s) of rejection.
- 5. See further rejections that follow.

Claim Rejections - 35 USC § 102

- 6. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 7. Claims 1, 5, 6, 10, 11, 15, 16, 18, 20, and 22-27 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,301,658 to Koehler, hereinafter Koehler.
- 8. As per claims 1, 6, and 11, Koehler teaches a method comprising:
 writing a party's authenticating information and a first digital certificate issuing
 authority's authenticating information in an electronic document, see Figure 1, blocks 15, 20, 30,
 35, see column 2, lines 51-67, see column 4, line 66 to column 5, line 20;

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signing, by the first digital certificate issuing authority, the electronic document to obtain a once signed electronic document, see Figure 1, block 40, see column 2, lines 51-67, see column 4, line 66 to column 5, line 20;

transmitting the once signed electronic document to a second digital certificate issuing authority, see column 2, line 51 to column 3, line 3;

signing, by the second digital certificate issuing authority, the once signed electronic document to obtain a twice signed electronic document, see column 2, line 51 to column 3, line 3, see column 4, line 66 to column 5, line 20,

wherein the second digital certificate issuing authority is hierarchically superior to the first digital certificate issuing authority, column 2, lines 51-67. The bottom of column 2, gives an example of certificate chaining, wherein the marketing division issues digital certificates for any document being created by the marketing team, thereby creating a once signed electronic document. The document is then transferred to the corporate digital certificate issuing authority for further authentication, thereby creating a twice-signed document, wherein the second digital certificate issuing authority is hierarchically superior to the first digital certificate issuing authority.

9. Regarding claims 5, 10, and 15, Koehler teaches wherein writing a party's authenticating information and a first digital certificate issuing authority's authenticating information in an electronic document comprises receiving the party's authenticating information via a secure connection, see column 2, lines 28-34.

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10. Regarding claims 22-27, Koehler discloses wherein the second digital certificate issuing authority is a root digital certificate issuing authority, refer to column 3, lines 45-60.

11. As per claims 16, 18, and 20, Koehler teaches a method comprising:

receiving, from a first digital certificate issuing authority, a once signed electronic document at a second digital certificate issuing authority that is hierarchically superior to the first digital certificate issuing authority, see column 2, line 51 to column 3, line 3;

writing the second digital certificate issuing authority's authenticating information in the once signed electronic document, see Figure 1, block 40, see column 2, lines 51-67, see column 4, line 66 to column 5, line 20; and

signing, by the second digital certificate authority, the once signed electronic document to form a twice signed electronic document, see column 2, line 51 to column 3, line 3, see column 4, line 66 to column 5, line 20.

Claim Rejections - 35 USC § 103

- 12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 13. Claims 2-4, 7-9, 12-14, 17, 19, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koehler in view of **Newton's Telecom Dictionary**, by Harry Newton, hereinafter Newton.

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14. Regarding claims 2, 7, and 12, Koehler does not disclose determining a hash value and adding it to the electronic document. Microsoft's Computer Dictionary, 5th Edition defines a hash value as:

A value used in creating digital signatures. This value is generated by imposing a hashing algorithm onto a message. This value is then transformed, or signed, by a private key to produce a digital signature.

Newton's Telecom Dictionary further defines a hash value as:

A small amount of binary data, typically around 160 bits, derived from a message by using a hashing algorithm. The hashing procedure is one-way. There is no feasible way of deriving the original message, or even any of its properties, from the hash value, even given the hashing algorithm. The same message will always produce the same hash value when passed through the same hashing algorithm.

Thus according to the definitions provided above the determination to use a hash value includes providing, as input to a hash algorithm, the contents of the electronic document; calculating, by the hash algorithm, a hash value; encrypting the hash value using the first digital certificate issuing authority's private key; and writing the encrypted hash value in the electronic document. It would have been obvious to one of ordinary skill in the art at the time the invention was made to include a hash value in addition to the digital signature, since Newton states on page 345 that such a modification would prevent the forging of an altered message.

- 15. Regarding claims 3, 8, 13, 17, 19, and 21, Koehler discloses writing the second digital certificate issuing authority's authenticating information in the once signed electronic document see column 2, lines 51-67.
- 16. Koehler does not disclose determining a hash value and adding it to the electronic document. Microsoft's Computer Dictionary, 5th Edition defines a hash value as:

A value used in creating digital signatures. This value is generated by imposing a hashing algorithm onto a message. This value is then transformed, or signed, by a private key to produce a digital signature.

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Newton's Telecom Dictionary further defines a hash value as:

A small amount of binary data, typically around 160 bits, derived from a message by using a hashing algorithm. The hashing procedure is one-way. There is no feasible way of deriving the original message, or even any of its properties, from the hash value, even given the hashing algorithm. The same message

will always produce the same hash value when passed through the same hashing algorithm.

Thus according to the definitions provided above the determination to use a hash value includes

providing, as input to a hash algorithm, the contents of the electronic document; calculating, by

the hash algorithm, a hash value; encrypting the hash value using the second digital certificate

issuing authority's private key; and writing the encrypted hash value in the electronic document.

It would have been obvious to one of ordinary skill in the art at the time the invention was made

to include a hash value in addition to the digital signature, since Newton states on page 345 that

such a modification would prevent the forging of an altered message.

17. With regards to claims 4, 9, and 14, Koehler discloses wherein the party's authenticating

information, the first digital certificate issuing authority's authenticating information, the digital

signature of the first digital certificate issuing authority, and the second digital certificate issuing

authority's authenticating information are all part of the document being signed multiple times,

please refer to column 2, lines 51-67, and column 4, line 66 to column 5, line 20. Thus it would

have required only routine skill in the art at the time the invention was made to choose one of the

abovementioned identifiers to serve as input for the hash algorithm.

Claim Objections

18. Claims 1-15 and 22-24 are objected to because of the following informalities:

The independent claims cite as the last limitation "wherein the second digital issuing

authority is hierarchically superior to the first digital certificate issuing authority." For the sake

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of examination the Examiner has interpreted the claims to read as "wherein the second digital certificate issuing authority is hierarchically superior to the first digital certificate issuing authority" (Emphasis added).

19. Appropriate correction is required.

Conclusion

- 20. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 21. The following patents are cited to further show the state of the art with respect to certificate chaining, such as:

United States Patent No. 5,903,882 to Asay et al., which is cited to show an example of certificate chains amongst certificate authorities in figure 2.

United States Patent No. 6,237,096 to Bisbee et al., which is cited to show electronic transmission of authenticated documents.

United States Patent No. 6,513,116 to Valente, which is cited to show security information acquisition.

- 22. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 23. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

24. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Christian La Forgia whose telephone number is (703) 305-7704.

The examiner can normally be reached on Monday thru Thursday 7-5.

25. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Avaz Sheikh can be reached on (703) 305-9648. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

26. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christian LaForgia Patent Examiner Art Unit 2131

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